For SN 10/766, 98/ 9/1/2006

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FILE 'LREGISTRY' ENTERED AT 08:49:26 ON 07 SEP 2006 L1STRUCTURE

FILE 'REGISTRY' ENTERED AT 08:51:31 ON 07 SEP 2006

L2 0 SEA SSS SAM L1 L3 10 SEA SSS FUL L1 SAV L3 LIP981/A

FILE 'HCAPLUS' ENTERED AT 08:56:00 ON 07 SEP 2006

L45 SEA ABB=ON PLU=ON L3

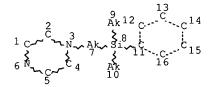
L5 1 SEA ABB=ON PLU=ON L4 AND 2002:594901/AN

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DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

T.3 10 SEA FILE=REGISTRY SSS FUL L1

L45 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

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ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN 2002:594901 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER:

137:140940

TITLE:

Polymers based on N-carbamyl-N'-dimethylsilyl methyl-piperazine traceless linkers for the solid phase synthesis of phenyl-based libraries

INVENTOR(S):

Cereda, Enzo; Pellegrini, Carlo Maria; Quai,

Monica; Barbaglia, Walter

PATENT ASSIGNEE(S):

Boehringer Ingelheim Pharma K.-G., Germany PCT Int. Appl., 25 pp. CODEN: PIXXD2

SOURCE:

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	TENT			KIN		DATE		APPLICATION NO.							DATE			
	2002							WO 2002-EP312							200201 15			
WO .	20020 W:	AE, CN, GE, LC, NO, TM, AZ, GH, CH,	AG, CO, GH, LK, NZ, TN, BY, GM, CY,	CR, GM, LR, OM, TR, KG, KE, DE,	CU, HR, LS, PH, TT, KZ, LS, DK,	AT, CZ, HU, LT, PL, TZ, MD, MW, ES,	DE, ID, LU, PT, UA, RU, MZ, FI,	AZ, DK, IL, LV, RO, UG, TJ, SD, FR,	DM, IN, MA, RU, US, TM SL, GB,	DZ, IS, MD, SD, UZ, SZ, GR,	EC, JP, MG, SE, VN, TZ, IE,	EE, KE, MK, SG, YU, UG, IT,	ES, KG, MN, SI, ZA, ZM, LU,	FI, KP, MW, SK, ZM,	GE KR MX SI ZW AT NI	CH, GD, KZ, MZ, TJ, J, AM,		
CA	24319	SN,	TR,											ML,	MR	, NE,		
									CA 2002-2431927							200201 15		
EP	13602	211			A2		2003	1112		EP 2	2002-	7035	49			200201 15		
JP	R: 20045	PT,	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	IT, AL,	TR		NL,	SE	, MC,		
US	US 2002120072					A1 20020829						200201 15						
US	6740	712			B2		2004	0525								200201 28		
US	20043	18624	43		A1					US 2	004-	76691	81			200401 29		
PRIORITY	APPI	LN.	INFO	.:						EP 2	:001-	1019	46		A	200101		
										US 2	001-2	2733:	12P		P	200103 02		
										WO 2	002-1	EP312	2	·	W	200201 15		
										US 2	002-	58433	3		A3	200201 28		

OTHER SOURCE(S):

MARPAT 137:140940

AB Polymers contg. silicon linkers based on the carbamyl piperazine moiety I [Resin = (divinylbenzene - or polyethylene glycol-crosslinked) polystyrene; R1 = H, C1-6-alkyl, C2-6-alkenyl, C2-6-alkynyl, C1-6-alkoxy, halogen, NO2, CF3; R2 = hydroxy, amino, formyl, nitrogen heterocycle] are prepd. for use in the solid phase synthesis of compds. or libraries of compds. embracing a Ph ring in their structure. A polymer was prepd. from isocyanate-modified polystyrene and 1-[[[3-(1,3-dioxolan-2-yl)-phenyl]-dimethylsilyl]- methyl]-piperazine.

T 444727-18-8DP, polymer-supported 444727-19-9DP, polymer-supported 444727-20-2DP, polymer-supported 444727-21-3DP, polymer-supported

RL: IMF (Industrial manufacture); PREP (Preparation) (polymers based on N-carbamyl-N'-dimethylsilyl methyl-piperazine traceless linkers for the solid phase synthesis of phenyl-based libraries)

RN 444727-18-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[3-[dimethyl(1-piperazinylmethyl)silyl]-5-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & \text{Me} \\
 & \text{Si-CH2} \\
 & \text{Me}
\end{array}$$

RN 444727-20-2 HCAPLUS

CN Piperazine, 1-[[[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]dim ethylsilyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & Me \\ N - CH2 - Si - Bu - t \\ Me & Me \end{array}$$

444727-21-3 HCAPLUS

RN

CN Carbamic acid, [3-[dimethyl(1-piperazinylmethyl)silyl]phenyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

IC ICM C08F008-42

ICS C08G065-32

35-8 (Chemistry of Synthetic High Polymers) CC

444727-18-8DP, polymer-supported 444727-19-9DP, IT polymer-supported 444727-20-2DP, polymer-supported

444727-21-3DP, polymer-supported

RL: IMF (Industrial manufacture); PREP (Preparation)

(polymers based on N-carbamyl-N'-dimethylsilyl methyl-piperazine traceless linkers for the solid phase synthesis of phenyl-based libraries)

ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1996:679859 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER:

126:8175

TITLE:

Reductive carbon-sulfur bond cleavage: a simple pathway to nonstabilized (lithiomethyl)amines

AUTHOR(S):

Strohmann, Carsten; Abele, Bors Cajus

CORPORATE SOURCE:

Dipl. Chem. B. C. Abele, Univ. Im Stadtwald,

Saarbruecken, D-66041, Germany

SOURCE:

Angewandte Chemie, International Edition in

English (1996), 35(20), 2378-2380

CODEN: ACIEAY; ISSN: 0570-0833

PUBLISHER: DOCUMENT TYPE:

VCH Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 126:8175

A simple pathway to nonstabilized mono(lithiomethyl)amines, e.g., LiCH2NEt2, that are not substituted on the α -carbon atom, by reductive C-S bond cleavage is described. The use of these synthetic building blocks in the construction of org. and organoelement compds. is also described.

ΙT 183873-60-1P

> RL: SPN (Synthetic preparation); PREP (Preparation) (simple pathway to nonstabilized (lithiomethyl)amines and their use in prepn. of org. and organoelement compds.)

RN 183873-60-1 HCAPLUS

Piperazine, 1-[(dimethylphenylsilyl)methyl]-4-methyl- (9CI) (CA CN INDEX NAME)

CC 29-6 (Organometallic and Organometalloidal Compounds) IT21579-78-2P 54926-36-2P 87625-35-2P 104017-39-2P 125263-07-2P 110503-25-8P 159329-87-0P 183873-60-1P 183873-61-2P 183873-62-3P 183873-63**-**4P 183873-64-5P RL: SPN (Synthetic preparation); PREP (Preparation) (simple pathway to nonstabilized (lithiomethyl)amines and their use in prepn. of org. and organoelement compds.)

ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1992:241938 HCAPLUS Full-text DOCUMENT NUMBER:

116:241938

TITLE:

Pharmaceutical compositions containing

organosilane derivatives as muscle relaxants and

antiparkinsonism agents

INVENTOR(S):

Farkas, Sandor; Foldeak, Sandor; Karpati, Egon; Hegyes, Peter; Kreidl, Janos; Szporny, Laszlo;

Czibula, Laszlo; Vass Petofi, Szilvia

PATENT ASSIGNEE(S):

Richter, Gedeon, Vegyeszeti Gyar Rt., Hung.

SOURCE:

Eur. Pat. Appl., 7 pp.

DOCUMENT TYPE:

Patent

CODEN: EPXXDW

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P	PATENT NO.					KINI)	DATE			APPLICATION NO.							DATE
_							-							<u>-</u>		-		
E	P 4	172304	!			A2		1992	0226		ΕP	199	1-3	3069	35			199107
E	P 4	172304	ļ			A3		1992	0422									29
		R: A	Т,	BE,	CH,											NL,	SE	E
Н	10 5	8205				A2		1992	0228		HU	199	0-4	646				
																		199007 27
Н	IU 2	206625	ò			В		1992	1228									
J	P C)42702	23			A2		1992	0925		JP	199	1-2	760	53			
																		199107 29
PRIORI	TY	APPLN	i. I	NFO.	:						HU	199	0-4	646		i	Ą	199007
																		27

OTHER SOURCE(S):

MARPAT 116:241938

$$\stackrel{\text{R1}}{\underset{\text{Me}}{\underbrace{\hspace{1.5cm}}}} \stackrel{\text{Me}}{\underset{\text{CH}_2 - \text{CH}_2'}{\underbrace{\hspace{1.5cm}}}} \stackrel{\text{(CH2)}}{\underset{\text{n}}{\underset{\text{N}}{\sum}}} \stackrel{\text{R}}{\underset{\text{CH}_2 - \text{CH}_2'}{\underbrace{\hspace{1.5cm}}}} \stackrel{\text{I}}{\underset{\text{I}}{\underbrace{\hspace{1.5cm}}}}$$

AΒ Pharmaceutical compns. contg. title compds. [I; R1=H, halogen; A=O, CH2, NR(R=H, C1-4 alkyl); m=1-3, n=1-2] are useful as muscle relaxants and antiparkinsonism agents. Chloromethyldimethylphenylsilane was refluxed with piperidine, and the oily residue thus produced was reacted with fumaric acid to obtain N-[dimethylphenylsilyl)methyl]piperidine fumarate (II). The ED50 of II in Straub's tail test in mice was 30.7 mg/kg i.p. A tablet contained II 50, gelatin 3, Mg stearate 2, talc 5, starch 45, and lactose 95mg.

IT 141497-22-5P

RL: PREP (Preparation)

(prepn. of, as muscle relaxant, pharmaceutical compn. contq.)

RN 141497-22-5 HCAPLUS

Piperazine, 1-butyl-4-[3-[(4-fluorophenyl)dimethylsilyl]propyl]-, hydrochloride (9CI) (CA INDEX NAME)

■x HCl

IC ICM A61K031-695

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1

IT 141497-14-5P 141497-15-6P 141497-16-7P 141497-18-9P 141497-19-0P 141497-20-3P 141497-21-4P 141497-22-5P

RL: PREP (Preparation)

(prepn. of, as muscle relaxant, pharmaceutical compn. contg.)

L4 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1969:28985 HCAPLUS Full-text

DOCUMENT NUMBER: 70:28985

TITLE: Thermal conversions of β -(N-

ethylenimino) ethylsilanes

AUTHOR(S): Nametkin, N. S.; Perchenko, V. N.; Grushevenko,

Τ Δ

CORPORATE SOURCE: Inst. Neftekhim. Sin. im. Topchieva, Moscow,

USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya

Khimicheskaya (1968), (9), 2078-81

CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE:

LANGUAGE:

Journal Russian

GI For diagram(s), see printed CA Issue.

Et2Si(CH2CH2R)2 (R = 1-aziridinyl) heated 5 hrs. at 300° gave 90% viscous yellow oil, contg. the ethylenimine ring and piperazine ring bands in the ir spectrum; evidently the product was I. In 8 hrs. this reaction gave a product devoid of aziridinyl rings and insol. in C6H6; this was probably a cross-linked modification of I. Heated at 250° 3 hrs. MePhSi(CH2CH2R)2 similarly gave a yellow oil of type I, while in 5 hrs. a similar product but with higher mol. wt. was formed, and in 8 hrs. infusible solid was produced. Heated at 300° 5 hrs. Et3SiCH2CH2R gave 70% product, b2 59-62°, and 24% product, b2 140-85°; the latter was crude linear dimer similar to I, b2 155-62°, n20D 1.4740, and its isomer, b2 178-81°, 1.4800, which was evidently a cyclic dimer, whose ir spectrum was comparable to that of reaction product of Et3SiCH:CH2 with the di-Li deriv. of piperazine. The residues gave a product, b2 190-205°, which had only the opened aziridine ring and had the compn. C30H72Si3N3. 1,4-Bis(triethylsilylethyl)-piperazine heated at 300° 5 hrs. gave no evidence of change. Me2PhSiCH2CH2R heated at 250° 5 hrs. gave 24% linear and cyclic dimers, b1 230-2°, which were inseparable by distn.

IT 20933-04-4P 22337-25-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 20933-04-4 HCAPLUS

CN Piperazine, 1,4-bis{2-[[2-(1-aziridinyl)ethyl]methylphenylsilyl]ethy
l]- (8CI) (CA INDEX NAME)

PAGE 2-A

RN

CN

22337-25-3 HCAPLUS
Piperazine, 1,4-bis[2-[[2-[4-[2-[[2-(1-aziridinyl)ethyl]methylphenylsilyl]ethyl]-1-piperazinyl]ethyl]methylphenylsilyl]ethyl]- (8CI) (CA INDEX NAME)

PAGE 1-A

PAGE 3-A

CC 29 (Organometallic and Organometalloidal Compounds) 4215-81-0P 4215-82-1P 20933-03-3P **20933-04-4P** 22337-25-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN L4ACCESSION NUMBER: 1965:431791 HCAPLUS Full-text

DOCUMENT NUMBER: 63:31791

ORIGINAL REFERENCE NO.: 63:5668g-h,5669a

TITLE:

Transformations of $\beta\text{-N-}$

ethyleniminoethylsilanes at elevated

temperatures and in the presence of nucleophilic

and electrophilic reagents

AUTHOR(S): Nametkin, N. S.; Grushevenko, I. A.; Perchenko, V. N.

SOURCE: Doklady Akademii Nauk SSSR (1965), 162(2), 347-9

CODEN: DANKAS; ISSN: 0002-3264

DOCUMENT TYPE: Journal LANGUAGE: Russian

 ${\tt R3SiCH2CH2N\,(CH2)\,2}$ were unchanged after 5 hrs. at 200° while at 250-300° they gave much material resulting from ring opening reactions; thus were formed polymers of type [-N(CH2CH2SiR3)CH2CH2-]x and dimers of type R3Si CH2CH2N(CH2CH2)2NCH2CH2SiR3 (I). Et3SiCH2CH2N(CH2)2 and NaI in Me2CO gave in 5 hrs. refluxing 22-50% I (R = Et), b1 1823°, n20D 1.4805, d20 0.8878. Similarly was obtained the product with R3 = (Me2, Ph), m. 31-2°. Similar reaction with catalytic amt. of AlCl3 in heptane gave in 1 hr. up to 90% I; similar treatment of PhCH2CH2N(CH2)2 with AlCl3 gave a polymer [-CH2CH2N(CH2CH2Ph)-]5. Thus either nucleophilic or electrophilic reagents convert these silylethylenimines into I as the sole identifiable products.

2288-06-4, Piperazine, 1,4-bis[2-(dimethylphenylsilyl)ethyl]- (prepn. of)

2288-06-4 HCAPLUS

Piperazine, 1,4-bis[2-(dimethylphenylsilyl)ethyl]- (7CI, 8CI) (CA INDEX NAME)

IT

RN

=>